REMARKS

Claims 2-11, 13, 14, 76 and 77 are pending in this application. By this Amendment,

claim 14 is amended and new claims 76 and 77 are added. Claim 14 was amended to address

a rejection under 35 USC 112.

No new matter is added to the present application by this Amendment. Support for the

new features added to claim 14 and new claims 76 and 77 find support within the present

specification, as originally filed, at, for example, page 4, line 26 – page 5, line 15.

Entry of the amendments and reconsideration of the application are respectfully

requested.

I. Rejection Under 35 USC 112

Claim 14 was rejected under 35 USC 112, second paragraph, as allegedly being

indefinite. This rejection is respectfully traversed.

Claim 14 has been amended to address the rejection under 35 USC 112, second

paragraph, as suggested by the Patent Office.

Applicants submit that amended claim 14 is definite and in accordance with 35 USC

112, second paragraph.

Thus, Applicants respectfully request withdrawal of the rejection under 35 USC 112,

second paragraph.

II. Rejection Under 35 USC 102

Claims 2-8, 11, 13 and 14 were rejected under 35 USC 102(b) as allegedly being

anticipated by U.S. Patent No. 5,986,046 to Nishiyama et al. (hereinafter "Nishiyama"). This

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rejection is respectfully traversed.

The Patent Office alleges that each and every feature of the foregoing claims is

disclosed by Nishiyama. Applicants respectfully disagree with the allegations of the Patent

Office as set forth in the Office Action.

Amended independent claim 14 is directed to a process requiring (1) providing a metal

salt of an organic acid or an inorganic acid having organic radicals, (2) preparing an oxidant

by contacting the metal salt with an ion exchanger and (3) mixing the oxidant with at least one

conductive polymer precursor for preparing at least one conductive polymer.

Claims 2 and 3 of the present application are directed to embodiments of the ion

exchanger required in claim 14. In the Office Action, the Examiner cites to the passage at col.

4, lines 1-22 of Nishiyama and rejects claims 2 and 3 on the basis that Nishiyama's OH group

or COOH group is a dopant anion that can dissociate to react with the metal ion and that the

alleged dopant anion discloses the anion exchanger of claims 2 and 3. Thus, it is clear that the

Patent Office alleges that the Nishiyama's alleged ion exchanger is the OH group or COOH

group.

However, Nishiyama does not teach that the OH group or the COOH group is a dopant

anion as alleged by the Patent Office. Instead, Nishiyama discloses that the resulting complex salt is taken or entrapped into the electronconductive polymer as the dopant anion. Col. 4,

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lines 1-22 of Nishiyama specifically set forth:

"...the OH group or the COOH group dissociates to react with a metal ion such as the iron(III) ion so as to form a *complex salt* (chelate complex) as shown in FIG. 5. This *complex salt* is taken or entrapped into the electroconductive polymer as the domait anion with the result that the heat-resistant property.

polymer as the dopant anion, with the result that the heat-resistant property cannot be elevated. Namely, as seen from FIG. 5, "H" of the OH group or the COOH group is lost because of formation of the chelate of the iron (III) ion

with the OH groups or the COOH groups, and therefore, the metal ion such as the iron (III) ion functioning as the catalyst in oxidation is taken or entrapped into the electroconductive polymer.

The most important point in the present invention is that the derivative of aromatic sulfonic acid having the OH group or the COOH group as the substituting group is dissolved in the non-protonic organic solvent, so that the dissociation of the OH group or the COOH group is suppressed or minimized, and therefore, the formation of the complex salt (chelate compound) with the metal ion is suppressed or minimized, with the result that derivative of aromatic sulfonic acid is effectively introduced into the electroconductive polymer as the dopant anion for elevating the heat resistant property."

This cited passages of Nishiyama does not disclose that the prior art includes a first step of providing a metal salt and then a second step of preparing an oxidant by contacting a metal salt with ion exchanger as required by the present claims. In contrast, Nishiyama teaches that the prior art including forming a complex salt (formed by the OH group or the COOH group dissociating to react with the metal ion such as the iron (III) ion so as to form a complex salt) which is taken or entrapped into the electroconductive polymer as a dopant anion. Moreover, the cited passages of Nishiyama disclose that the most important point of Nishiyama's invention is suppressing (1) the dissociation of the OH or COOH group (Nishiyama's alleged anion exchanger) and (2) formation of complex salt with the metal ion. Thus, Nishiyama's invention teaches away from inclusion of the alleged anion exchanger and formation of the complex salt and also teaches away of the presently claimed process which requires contacting a metal salt with the ion exchanger to produce an oxidant.

Accordingly, Nishiyama fails to disclose preparing an oxidant by contacting the metal salt with an ion exchanger as required by amended claim 14.

Because the features of independent claim 14 are not disclosed by Nishiyama,

Nishiyama does not anticipate, or rendered obvious, the features specifically defined in claim

14 and its dependent claims.

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Claim 7 requires that the transition metal salt is Fe(III) p-toluenesulphonate, Fe(III) otoluenesulphonate or a mixture of Fe(III) p-toluenesulphonate and Fe(III) otoluenesulphonate. Applicants want to take this opportunity to point out that even if a derivative of an aromatic sulfonic acid being substituted with a OH-group or a COOH-group is regarded as an alleged ion exchanger used to allegedly treat an iron (III) ion, Nishiyama certainly does not teach or suggest that a skilled artisan would have treated a metal salt selected from the group consisting of Fe(III) p-toluenesulphonate, Fe(III) otoluenesulphonate and a mixture thereof with such a derivative as required by claim 7. The derivative of an aromatic sulfonic acid being substituted with a OH-group or a COOH-group allegedly disclosed by Nishiyama is an organic component used to prepare the oxidant. Nishiyama's inorganic component is the iron(III) ion. Thus, a skilled artisan would not have been motivated to treat a metal salt selected from the group consisting of Fe(III) ptoluenesulphonate, Fe(III) o-toluenesulphonate or a mixture thereof (i.e., a metal salt already comprising an organic component) with another organic component in order to prepare an oxidant. Applicants also point out that p-toluensulphonate and o-toluensulfonate are not

For at least these reasons, claims 2-8, 11, 13 and 14 are patentably distinct from and/or non-obvious in view of Nishiyama. Reconsideration and withdrawal of the rejection of the claims under 35 USC 102(b) are respectfully requested.

aromatic sulfonic acids carrying OH- or COOH- groups as a substituent.

III. Rejection Under 35 USC 103

Claims 9 and 10 were rejected under 35 USC 103(a) as allegedly being unpatentable over Nishiyama in view of U.S. Patent No. 4,910,645 to Jonas et al. (hereinafter "Jonas").

This rejection is respectfully traversed.

The Patent Office alleges that each and every feature of the foregoing claims would

have been obvious to a skilled artisan in view of the teachings of Nishiyama and Jonas.

Applicants respectfully disagree with the allegations of the Patent Office as set forth in the

Office Action

Jonas does not remedy the deficiencies of Nishiyama with respect to claim 14, from

which claims 9 and 10 depend, because Jonas also fails to teach or suggest preparing an

oxidant by contacting the metal salt with an ion exchanger. Thus, Nishiyama and Jonas, taken

singly or in combination, do not teach or suggest preparing an oxidant by contacting the metal

salt with an ion exchanger as required by amended claim 14.

Because the features of independent claim 14 are not disclosed by Nishiyama and

Jonas, taken singly or in combination, these references would not have anticipate, or rendered

obvious, the features specifically defined in claim 14 and its dependent claims.

For at least these reasons, claims 9 and 10 are patentably distinct from and/or non-

obvious in view of Nishiyama and Jonas. Reconsideration and withdrawal of the rejections of

the claims under 35 USC 103(a) are respectfully requested.

IV. New Claims

Applicants take this opportunity to submit that none of the cited references, taken

singly or in combination, teach or suggest treating an oxidant with an ion exchanger, or

treating an ion exchanger with an oxidant wherein, after the treatment, the two components

are separated from each other. In contrast, even if Nishiyama's alleged derivative of aromatic

sulfonic acid having, as a substituting group, a OH-group or a COOH-group, is allegedly seen

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as an ion exchanger, Nishiyama does not teach that after this derivative has been brought into

contact with the iron(III) ion, both components are separated of from each other before the

oxidant is used to catalyze the oxidative polymerization of conductive polymer precursors.

Instead Nishiyama's components remain together in an oxidant solution which is used to

prepare electrically conductive polymers (see the examples according to Embodiment 1-3 of

Nishiyama).

Thus, none of the cited references, taken singly or in combination, teach or suggest

separating the ion exchanger from the oxidant before mixing the oxidant with the at least one

conductive polymer as recited in newly added claim 76. Moreover, none of the cited

references, taken singly or in combination, teach or suggest that the separation of the oxidant

from the ion exchanger is accomplished by passing a solution of the metal salt through a

column containing the ion exchanger, or bringing the metal salt, solvent and ion exchanger

together in a vessel followed by separating of the ion exchanger from the oxidant as required

by newly added claim 77.

Accordingly, the subject matter of new claims 76 and 77 are patentable and

nonobvious in view of the cited references.

v. Conclusion

In view of the foregoing, it is respectfully submitted that this application is in

condition for allowance. Favorable reconsideration and prompt allowance of claims 2-11, 13,

14, 76 and 77 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place

this application in even better condition for allowance, the Examiner is invited to contact the

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undersigned at the telephone number set forth below.

Early and favorable action is earnestly solicited.

CONDITIONAL PETITION FOR EXTENSION OF TIME

If entry and consideration of the amendments above requires an extension of time,

Applicant respectfully requests that this be considered a petition therefor. The Commissioner

is authorized to charge any fee(s) due in this connection to Deposit Account No. 14-1263.

ADDITIONAL FEE

Please charge any insufficiency of fees, or credit any excess, to Deposit Account No.

14-1263.

Respectfully submitted,

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